

19) Jeremy make 3-pointers

45%

55%

$$a) \quad \underbrace{.45} \quad \underbrace{.45} \quad \underbrace{.45} \quad \underbrace{.45} \quad \underbrace{.45} \quad \underbrace{.45} \\ (.45)^6 = .0083$$

$$b) \quad \underbrace{.55} \quad \underbrace{.55} \quad \underbrace{.55} \quad \underbrace{.45} = (.55)^3 (.45)^1 \\ = .075$$

$$c) \quad \underbrace{.55} \quad \underbrace{.55} \quad \underbrace{.55} \quad \underbrace{.45} \quad \underbrace{.45} \quad \underbrace{.45} \\ (.55)^3 (.45)^3 \times 20 \\ = .303$$

← 1, 6, 15, 20, 15, 6, 1

d) 3, 4, 5, 6

make 3  $\neq .303$

make 4

$$(.45)^4 (.55)^2 \times 15 = .186$$

$$\text{make 5 } (.45)^5 (.55)^1 \times 6 = .061$$

$$\text{make 6 } (.45)^6 \times 1 = .0083$$

.5589